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1 [Secure buffering in firm real-time database systems](#)

Binto George, Jayant R. Haritsa

 February 2000 **The VLDB Journal — The International Journal on Very Large Data**
Bases, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(227.42 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Many real-time database applications arise in electronic financial services, safety-critical installations and military systems where enforcing is crucial to the success of the enterprise. We investigate here the performance implications, in terms of killed transactions, of guaranteeing *multi-level secrecy* in a real-time database system supporting applications with *firm* deadlines. In particular, we focus on the *buffer management* aspects of this issue. Our main contributions a ...

Keywords: Buffer management, Covert channels, Firm deadlines, Real-time database

2 [Secure transaction processing in firm real-time database systems](#)



Binto George, Jayant Haritsa

 June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

 Full text available: pdf(1.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many real-time database applications arise in safety-critical installations and military systems where enforcing security is crucial to the success of the enterprise. A secure real-time database system has to simultaneously satisfy who requirements guarantee data security and minimize the number of missed transaction deadlines. We investigate here the performance implications, in terms of missed deadlines, of guaranteeing security in a real-time database system. In particular, we focus on t ...

3 [Session 3.3: Genetic database optimization: how data inspection and consideration, provides for index compression and record access optimization of genetic databases](#)



Givon Zirkind

 April 2006 **Proceedings of the 2006 ACM SIGMIS CPR conference on computer personnel research: Forty four years of computer personnel research:**

10/17/07, 5:32

achievements, challenges & the future SIGMIS CPR '06**Publisher:** ACM PressFull text available:  [pdf\(168.37 KB\)](#) . Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the many advances in computer hardware, the constant and historical challenges of optimization in processing and data storage appeared to have diminished if not disappeared almost entirely. However, even as hard drives grow larger and larger, while prices keep dropping; and the same occurring to memory; computer programs have turned more and more into bloatware - bringing computer usage back to its starting point and original engineering issues of efficiency. [12] Likewise, (CPU) processing ...

Keywords: aquaculture, bio-informatics, bioinformatics, database, gene, genetics, optimization, record access optimization, software engineering

4 Scalable high-speed prefix matching

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner


November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(933.02 KB\)](#) . Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p ...

Keywords: collision resolution, forwarding lookups, high-speed networking

5 Time- and space-optimality in B-trees

Arnold L. Rosenberg, Lawrence Snyder


March 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.23 MB\)](#) . Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A B-tree is compact if it is minimal in number of nodes, hence has optimal space utilization, among equally capacious B-trees of the same order. The space utilization of compact B-trees is analyzed and compared with that of noncompact B-trees and with (node)-visit-optimal B-trees, which minimize the expected number of nodes visited per key access. Compact B-trees can be as much as a factor of 2.5 more space efficient than visit-optimal B-trees; and the node ...

Keywords: 2,3-tree, B-tree, bushy B-tree, compact B-tree, node-visit cost, space utilization

6 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(233.31 KB\)](#) . Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

7 Selected writings on computing: a personal perspective

Edsger W. Dijkstra
January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

8 A general framework for prefetch scheduling in linked data structures and its application to multi-chain prefetching

Seungryul Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung
May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer chains provides a source of memory parallelism. This article investigates exploiting such *interchain memory parallelism* for the purpose of memory latency tolerance, using a technique called *multi--chain prefetching*. Previous work ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

9 The convergence of AOP and active databases: towards reactive middleware

Mariano Cilia, Michael Haupt, Mira Mezini, Alejandro Buchmann
September 2003 **Proceedings of the 2nd international conference on Generative programming and component engineering GPCE '03**

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(330.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Reactive behavior is rapidly becoming a key feature of modern software systems in such diverse areas as ubiquitous computing, autonomic systems, and event-based supply chain management. In this paper we analyze the convergence of techniques from aspect oriented programming, active databases and asynchronous notification systems to form reactive middleware. We identify the common core of abstractions and explain both commonalities and differences to start a dialogue across community boundaries. W ...

10 Implementing an untrusted operating system on trusted hardware

David Lie, Chandramohan A. Thekkath, Mark Horowitz

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5**Publisher:** ACM Press

Full text available: pdf(280.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recently, there has been considerable interest in providing "trusted computing platforms" using hardware~----~TCPA and Palladium being the most publicly visible examples. In this paper we discuss our experience with building such a platform using a traditional time-sharing operating system executing on XOM~----~a processor architecture that provides copy protection and tamper-resistance functions. In XOM, only the processor is trusted; main memory and the operating system are not trusted. Our opera ...

Keywords: XOM, XOMOS, untrusted operating systems11 Classics in software engineering

January 1979 Divisible Book

Publisher: Yourdon PressAdditional Information: [full citation](#), [cited by](#), [index terms](#)12 Scalable and fault-tolerant support for variable bit-rate data in the exedra streaming server

Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm

November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4**Publisher:** ACM Press

Full text available: pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the design and implementation of the Exedra continuous media server, and experimentally evaluate alternative resource management policies using a prototype system that we built. Exedra has been designed to provide scalable and efficient support for variable bit-rate media streams whose compression efficiency leads to reduced storage space and bandwidth requirements in comparison to constant bit-rate streams of equivalent quality. We examine alternative disk striping policies, and qua ...

Keywords: Content distribution, multimedia compression13 Retrospective on Aurora

Hari Balakrishnan, Magdalena Balazinska, Don Carney, Uğur Çetintemel, Mitch Cherniack, Christian Convey, Eddie Galvez, Jon Salz, Michael Stonebraker, Nesime Tatbul, Richard Tibbetts, Stan Zdonik

December 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 4**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(349.43 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This experience paper summarizes the key lessons we learned throughout the design and implementation of the Aurora stream-processing engine. For the past 2 years, we have built five stream-based applications using Aurora. We first describe in detail these applications and their implementation in Aurora. We then reflect on the design of Aurora based on this experience. Finally, we discuss our initial ideas on a follow-on project, called

Borealis, whose goal is to eliminate the limitations of A ...

Keywords: Data stream management, Distributed stream processing, Monitoring applications, Quality-of-service, Stream-processing engines

14 DynaMat: a dynamic view management system for data warehouses



Yannis Kotidis, Nick Roussopoulos

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pre-computation and materialization of views with aggregate functions is a common technique in Data Warehouses. Due to the complex structure of the warehouse and the different profiles of the users who submit queries, there is need for tools that will automate the selection and management of the materialized data. In this paper we present DynaMat, a system that dynamically materializes information at multiple levels of granularity in order to match the demand (workload) but also takes into ...

15 Dynamic data fusion for future sensor networks



Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, Phillip Hutto, Arnab Paul
August 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(2.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor networks. Elements of the DFuse architecture include a fusion API, a distributed role assignment algorithm that dynamically adapts the placement of the application task graph on the network, and an abstraction migration facility that aids such ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment

16 A pipelined memory architecture for high throughput network processors



Timothy Sherwood, George Varghese, Brad Calder

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(213.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Designing ASICs for each new generation of backbone routers is a time intensive and fiscally draining process. In this paper we focus on the design of a programmable architecture for backbone routers, based on the manipulation of wide irregular memory words, that can provide a feasible design alternative to custom ASICs. We propose a pipelined memory design that emphasizes worst-case throughput over latency, and co-explore architectural tradeoffs with the design of several important network algo ...

17 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments





Additional presentations from the 24th course are available on the citation

page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
 July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available:  [pdf\(5.07 MB\)](#)  Additional Information: [full citation](#), [appendices and supplements](#),
[mov\(68:6 MIN\)](#) [abstract](#), [references](#), [cited by](#), [index terms](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality


18 [Joint scheduling and admission control for ATS-based switching nodes](#)



Jay Hyman, Aurel A. Lazar, Giovanni Pacifici

October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A joint scheduling and admission control algorithm is presented for Asynchronous Time-Sharing (ATS)-based switching nodes carrying real-time traffic. Systems based on ATS guarantee quality of service, at both the levels of cells and calls, for three well-defined traffic classes. A mechanism is outlined by which an admission control strategy can be tailored to a particular mix of traffic classes. A mechanism is outlined by which an admission control strategy can be tailored to a particular m ...

19 [Storing a persistent transactional object heap on flash memory](#)



Michal Spivak, Sivan Toledo

June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers and tool support for embedded systems LCTES '06**, Volume 41 Issue 7

Publisher: ACM Press

Full text available:  [pdf\(337.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design and implementation of TinyStore, a persistent, transactional, garbage-collected memory-management system, designed to be called from the Java virtual machine of a Java Card. The system is designed for flash-based implementations of Java Card, a variant of the Java platform for smart cards. In the Java Card platform, objects are persistent by default. The platform supports transactions: a sequence of accesses to objects can be explicitly declared to constit ...

Keywords: nor flash, Java Card, flash, persistent heaps, persistent object stores, smart cards, transactions

20 [Frangipani: a scalable distributed file system](#)



Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue

⁵
Publisher: ACM Press

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DR Jefferson, A Motro - Proceedings of the Second International Conference on Data ..., 1986 - isse.gmu.edu

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to a **database**, actions that ... What both of these **problems** have in common is ...

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The HiPAC project: combining active databases and timing constraints

MJ Carey, M Livny, R Jauhari - ACM SIGMOD Record, 1988 - portal.acm.org

... The HiPAC (High **Performance** Active **database** system) project addresses two critical

problems in **time** ... that are an integral part of the **database** and are ...

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H Spencer - Usenix Conference Proceedings - unix.org

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in early Shuse **operations** ... apart from certain practical **problems** - it's ...

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B Kao, H Garcia-Molina - Advances in Real-Time Systems, 1995 - cs.cnu.ac.kr

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include slow job turnaround ... a transaction in a **database** system requires ...

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of the **database** that did ... to thirty CPUs with a peak **performance** of around ...

10/175,312

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IRIS performer: a high performance multiprocessing toolkit for real-time 3D graphics - all 8 versions »

J Rohlf, J Helman - Proceedings of the 21st annual conference on Computer ..., 1994 - portal.acm.org

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C Carter, HJ Hamilton, Dept. of Computer Science, ... - 1994 - cs.uregina.ca

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Automatic database diagnostic monitor architecture

K Dias, S Gupta, M Ramacher, U Shaft, V ... - 2005 - freepatentsonline.com

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M Ramacher, GS Wood, J Loaiza, T Lahiri, K Dias - 2005 - freepatentsonline.com

... determine **performance problems** in **database** system 105. [0041] The **Time Model** [0042]

The **time** model is used to quantify of the impact of **wasteful operations** on ...

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... **wasteful**, as comparison **operations** (particularly on strings) are **time** consuming. ... might be causing a **performance problem**, not necessarily any helpful ...

www-128.ibm.com/developerworks/library/l-optperl.html [**#1 on Yahoo!**]

mod_perl: Performance Tuning

... you might want to use to get the most **performance** ... Analysis of the **Problem**; Optimizing **Database Connections**; Utilizing the ... Web site, one good speed measurement is the **time** ...

<http://perl.apache.org/docs/1.0/guide/performance.html> [**#1 on MSN**]

Performance Tuning EJB

the benchmark be run for a long enough period to avoid one-time initialization **times** to skew ... and therefore **performance** can only be scaled up by buying ...

dn.codegear.com/.../performance_tuning_ejb_based_applications.pdf [**#2 on Yahoo!**]

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... **time** and run-time **operation performance**, as ... could be a **wasteful** process, which could disrupt normal **database operation**. ... by queries at the **time** of reported **performance problem** ...

<http://www.oracle.com/technology/product...> [**#2 on MSN**]

Managing the Performance of DB2 for z/OS and OS/390

These **operations** benefit the system by reducing wait **times**; however, ... GETPAGES required helps to ider **performance problem** and quantifies the impact to ...

database.ittoolbox.com/pub/CM071602.pdf [**#3 on Yahoo!**]

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... incurred when you add indexes to a **database**. Each **time** a ... Optimizing **database performance** is a cor topic that's ... Think about how to describe the **problem** as a bulk **operation**.

<http://www.sitepoint.com/article/aspnet-performance-tips/6> [**#3 on MSN**]

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Does your site stay strong in **times** of high traffic? ... to standard SQL, and the **time** for the resulting **operati** dropped from eight ...

www.sitepoint.com/article/aspnet-performance-tips/6 [**#4 on Yahoo!**]

MeasureIT - Issue 4.10 - I/O Performance Issues and Impacts on Time ...

10/772,513

<http://www.jux2.com/best.php?q=database+performance+problem+and+time+and+wasteful...> 10/29/07

... resulting in **wasteful and** ... software at the **problem**. To compensate for poor I/O **performance** ... result in **performance** bottlenecks on **database** and file servers, impacting **time** ...
http://www.cmg.org/measureit/issues/mit36/m_36_3.html [**#4 on MSN**]

O'Reilly Network -- RSDP: A Really Simple Proposal

... spent far too much **time** fighting with **database** issues, versus building and ... **Database** developers obviously value **performance** for enterprise applications. ...
www.oreillynet.com/pub/a/network/2005/04/11/rsdp.html [**#5 on Yahoo!**]

Medusa: A High-Performance Internet Server Architecture

Medusa can be extended **and** modified at run-time ... Starting up a new process is an expensive **operation** ... any ... This combined server can solve a major **performance problem** at ...
<http://www.nightmare.com/medusa/medusa.html> [**#5 on MSN**]

Speed Up Your Site! 8 ASP.NET Performance Tips

Does your site stay strong in **times** of high traffic? ... web service call was at fault **and** spent valuable **time** solving the wrong **problem**. ...
www.sitepoint.com/print/aspnet-performance-tips [**#6 on Yahoo!**]

Performance Optimization

... **problem** in a batch job through noticing the **performance** degrading over **time** and ... **performance problem** when the **database** ... **performance** by requiring only one **database operation** ...
http://download-west.oracle.com/docs/cd/A97329_03/toplink.903/b10064/performa.htm [**#6 on MSN**]

Capacity planning and performance management software from TeamQuest

Distribute **performance** data in whatever way is optimal for your **operation** ... TeamQuest **Performance Software** makes it possible for large IT **operations** to keep ...
www.teamquest.com/solutions-products/products/index.htm [**#7 on Yahoo!**]

Performance Forensics

... is not necessarily folly, but it can be **wasteful** ... discovering the root cause of a **performance problem**)
Tools ... resource, the latency of each **operation** would depend on its **time** spent ...
<http://www.sun.com/blueprints/1203/817-4444.pdf> [**#7 on MSN**]

How do I page through a recordset?

... is discarded, **and** this can be quite a **wasteful operation** on larger tables. ... the **performance** of this solution was unacceptable, though the run **time** didn't ...
databases.aspfaq.com/database/how-do-i-page-through-a-recordset.html [**#8 on Yahoo!**]

Microsoft IIS 6.0 - Web and Application Server Infrastructure ...

... hops is good for overall **performance** and response **time** ... be a CPU-intensive or **wasteful operation**. It might have a contention **problem** in an application is a high system **performance** ...
<http://www.microsoft.com/technet/prodtec...> [**#8 on MSN**]

Continuous resource monitoring for self-predicting DBMS

resources that might impact **performance** — is **wasteful and** can be prohibitively expensive. ... **time prediction** and in **performance** visualization. ...
www.pdl.cmu.edu/PDL-FTP/Database/mascots05.pdf [**#9 on Yahoo!**]

Make PHP apps fast, faster, fastest, Part 2: Profile your PHP ...

... network design **and** smart **database** construction can alleviate lag **time** and slow ... A simple **performance** metric is wall clock **time**, or measuring the real-world ...
www-128.ibm.com/developerworks/library/os-php-fastapps2/index.html?... [**#10 on Yahoo!**]

WEST Search History

DATE: Monday, October 29, 2007

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L18	(l16 or L17) and l7	11
<input type="checkbox"/>	L17	707/206.ccls.	786
<input type="checkbox"/>	L16	707/100.ccls.	5728
<input type="checkbox"/>	L15	(l10 or l11 or l12 or l13 or l14) and l7	6
<input type="checkbox"/>	L14	DIAS-KARL.in.	15
<input type="checkbox"/>	L13	LAHIRI-TIRTHANKAR.in.	14
<input type="checkbox"/>	L12	LOAIZA-JUAN.in.	16
<input type="checkbox"/>	L11	WOOD-GRAHAM-STEPHEN.in.	7
<input type="checkbox"/>	L10	RAMACHER-MARK.in.	16
<input type="checkbox"/>	L9	l3 and L7	6
<input type="checkbox"/>	L8	l2 and L7	0
<input type="checkbox"/>	L7	L6 and (time same (wast\$ or purg\$ or delet\$ or cleans\$) same (database\$ or (data adj1 base\$)))	88
<input type="checkbox"/>	L6	(l2 or l3 or l4) and ((database\$ or (data adj1 base\$)) near performance)	150
<input type="checkbox"/>	L5	L4 and (time near value near record\$)	2
<input type="checkbox"/>	L4	((wast\$ or purg\$ or delet\$ or cleans\$) near (database\$ or (data adj1 base\$)))	3447
<input type="checkbox"/>	L3	(diagnostic\$ near (database\$ or (data adj1 base\$)))	518
<input type="checkbox"/>	L2	(quantify\$ near (database\$ or (data adj1 base\$)))	26
		<i>DB=USPT; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L1	(quantify\$ near (database\$ or (data adj1 base\$)))	9

END OF SEARCH HISTORY

10/ 775,518